

E16

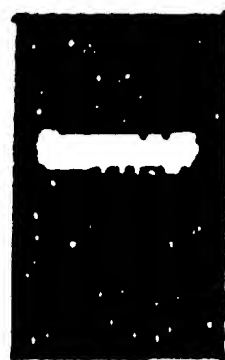


FIG. 1A

P60



FIG. 1B



← 1018 bp

← 507 bp

FORWARD PRIMER [GCGGGGCGGTGCGTGACTAC]
REVERSE PRIMER [GGGTGGTGAGGGTTGAGGTTTGTG]

FIG. 2

NESTIN POSITIVE CELLS PROLIFERATE AROUND ISLETS IN VITRO



FIG. 3

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100x

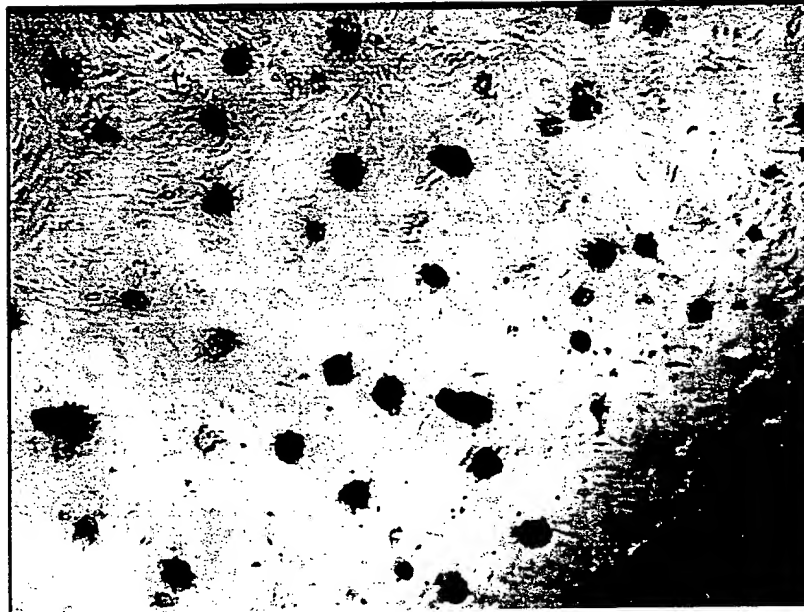


FIG. 4A

200x



FIG. 4B

TOP SECRET 60

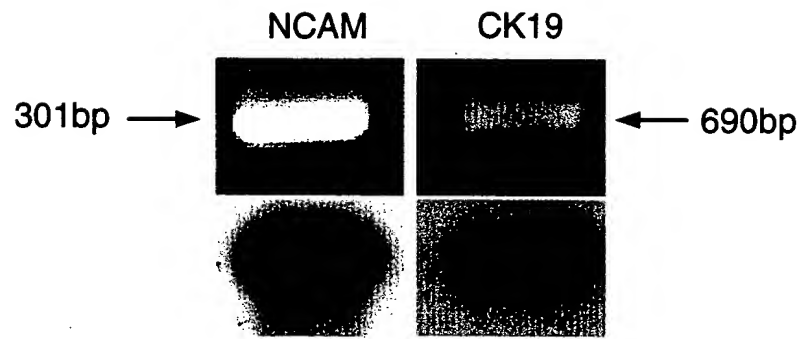


FIG. 5



FIG. 6

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Nestin Amino Acid Sequence:

"MEGCMGEESFQMWELNRRLEAYLGRVKALEEQNELLSAGLGGLR
RQSADTSWRAHADDELAALRALVDQRWREKHAAEVARDNLAEELGVAGRCEQLRL
ARERTTEEVARNRRAVEAEKCARAWLSSQGAELERELEALRVAHEEERVGLNAQAAC
APRLPAPPRPPAPAPEVEELARRLGEAWRGAVRGYQERVAHMETSLDQTRERLARAVQ
GAR
EVRLELQQLQAERGGLLERRAALEQRLEGRWQERLRATEKFQLAVEALEQEKQGLQSQ
IAQVLEGRQQLAHLKMSLSLEVATYRTLLEAENSRLQTPGGGSKTSLSFQDPKLELQF
PRTPEGRRLGSLPVLSPTSLPSPLPATLETPVPAFLKNQEFLQARTPTLASTPIPT
PQAPSPAVIDAEIRAQDAPLSLLQTQGGKQAPPLRAEARVAIPASVLPGPEEPGGQR
QEASTGQSPEDHASLAPPLSPDHSSLEAKDGESGGSRVFSICRGEQEGQIWGLVEKET
AIEGKVSSSLQEQIWEEDLNRKEIQDSQVPLEKETLKS LGEEIQESLKTLENQSHET
LERENQECPRSLEEDLETLKSLEKENKRAIKGCGGSETSRKRGCRLKPTGKEDTQTL
QSLQKENQELMKSLEGNLETFLFPGTENQELVSSLQENLESLETALEKENQEPLRSPEV
GDEEALRPLTKENQEPLRSLEDENKEAFRSLEKENQEPLKTLEEDQSIVRPLETENH
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SGGNESSRKGNSTRITGVCSEPRDIQTPGRGESGIIISGSMEPGFEFISRGVDKESQ
RNLEEEENLGKGEYQESLRSLEEEGQELPQSADVQRWEDTVEKDQELAQESPPGMAGV
ENKDEAELNLREQDGTGKEEVVEQGELNATEEVWFPGEHGPENPEPKQRGLVEGAS
VKGGAEGLDPEGQSQQVGTPLQAPQGLPEAIEPLVEDDVAPGGDQASPEVMLGSEP
AMGESAAAGAEPLGGQVGGGLDPLGHLTREEVMEPPLEESLEAKRVQGLEGPRKDLLE
AGGLGTEFSELPGKSRDPWEPPREGREESEAEAPRGAEAEAFPAETLGHTGSDAPSPWP
LGSEEAEDVPPVLVSPSTYTPILEDAPGLQPQAEQSQASWGVQGRAEAGKVESEQ
EELGSGEIPEGLQEEGEESREESEDELGETLPDSTPLGFYLSPTS PRWTPLESRGH
PLKETGKEGWDPAVLASEGLEEPSEKEEGEEGEEECGRDSDLSEEFEDLGTEAPFLPG
VPGEVAEPLGQVPQLLLDPAAWDRDGEDSGFADEEESGEEGEEDQEEGREPGAGRWGP
GSSVGSLLQALSSSQRGFLESDSVSVSPWDDSLRGAVAGAPKTALETESQDSAEPG
SEESDPVSLEREDKVPGLPEIPSGMEDAGPGADIIGVNGQPNLEGKSQHVNGGVMN
GLEQSEESGARNALVSEGRGSPFQEEEGSALKRSSAGAPVHLGQGQFLKFTQREGDR
ESWSSGED"

Nestin Nucleotide Sequence:

BASE COUNT 1238 a 1176 c 1676 g 764 t ORIGIN 1

atggagggct gcatggggga ggagtcgtt cagatgtggg agctcaatcg ggcctggag 61
gcctacctgg gccgggtcaa ggcgctggag gacgagaatg agctgctcag cgccggactc 121
ggggggctcc ggcgacaatc cgcgacacc tctggcggg cgcatgccga cgacgagctg 181
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cgcgacaacc tggctgaaga gctggagggc gtggcaggcc gatgcgagca gctgcggctg 301
gcccgggagc ggacgacgga ggaggtagcc cgcaaccggc gcgccgtcga ggcagagaaa
361 tgcgcccggg cctggctgag tagccagggg gcagagctgg agcgcgagct agaggctcta
421 cgcgtggcgc acgaggagga gcgctcggg ctgaacgcgc aggtcgcctg tgcccccg

FIG. 7A

481 ctgcccgcgc cgccccggcc tcccgcgccg gccccggagg tagaggagct ggcaaggcga
 541 ctgggcgagg cgtggcgcg ggagctgcgc ggctaccagg agcgctggc acacatggag
 601 acgtcgctgg accagacccg cgagcgctg gcccggcggg tgcaggggtgc ccgcgaggtc
 661 cgcttgagc tgcagcagct ccaggctgag cgcgagggcc tcttgagcg cagggcagcg
 721 ttggaacaga ggttgagggg ccgctggcag gagcggtgc gggctactga aaagtccag
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 1081 gctacccttg agacacctgt gccagcctt cttaagaacc aagaattct ccaggcccgt
 1141 accctacct tggccagcac cccatcccc ccacacctc aggcacctc tctgtctga
 1201 gatgcagaga tcagagccca ggatgctct ctctctctgc tccagacaca gggtgaggg
 1261 aaacaggctc cagagccct gcgggtgaa gccagggtgg ccttctctgc cagcgtctg
 1321 cctggaccag aggagcctgg gggccagcgg caagaggcca gtacaggcca
 gtccccagag 1381 gaccatgcct ccttggcacc accctcagc cctgaccact ccagtttaga
 ggctaaggat 1441 ggagaatccg gtgggtctag agtgtcagc atatgccgag gggaaggta
 agggcaaatc 1501 tgggggttgg tagagaaaga aacagccata gagggcaaa tgtaagcag
 ctgcagcag 1561 gaaataggg aagaagagga tctaacagg aaggaaatcc aggactcca
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 gactctgaa 1681 aaccagagcc atgagacact agaaaggag aatcaagaat gtccgaggtc
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 aggatgtgga 1801 ggtagtgaga cctctagaaa aagaggctgt aggcaactta agcctacagg
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 ggaccaagaa 2881 ctggctcagg aaagccctcc tgggatggct ggagtggaaa ataaggatga
 ggcagagctg 2941 aatctaagg agcaggatgg ctctactggg aaggaggagg tggtagagca
 gggagagctg 3001 aatgccacag aggaggtctg gtccccaggc gaggggcacc

FIG. 7B

cagagaaccc tgagcccaaa 3061 gagcagagag gcctggtga gggagccagt
 gtgaagggag gggctgaggg cctccaggac 3121 cctgaagggc aatcacaaca
 ggtggggacc ccaggcctcc aggtcccca ggggctgcca 3181 gaggcgatag agcccctggt
 ggaagatgat gtggccccag ggggtgacca agcctcccca 3241 gaggtcatgt tggggtcaga
 gcctgccatg ggtgagtctg ctgcgggagc tgagccaggc 3301 ctggggcagg ggggtggagg
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 cccctcaagg agactgaaa ggaggggtgg gatcctgctg tctggctc cgagggcctt 4021
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 4081 gacctgtcag aagaattga ggacctggg actgaggcac ctttcttc tgggtccct
 4141 ggggaggtgg cagaacctc gggccagggtg cccagctgc tactggaacc tgcagcctgg
 4201 gatcgagatg gggagtctga tgggttgca gatgaggaag aaagtggga ggaggagag
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 4441 gccctgaaa cggagtccca ggacagtgt gagcctctg gctcagagga agagtctgac
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 4561 gaggatgcag gccaggggc agacatcatt ggtgttaat gccaggttc caactggag
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 4681 ggggcaagga atgcgctagt ctctaggga gaccaggga gcccttca ggaggaggag
 4741 gggagtgtc tgaagaggtc ttcggcagg gctcctgtc accgggcca gggcagttc
 4801 ctgaagtca ctcagaggga aggagataga gattcctgt cctcagggga ggac //

FIG. 7C

[illegible]

916

P60



P60

P60

FIG. 8E

FIG. 9A

FIG. 9B

FIG. 9C

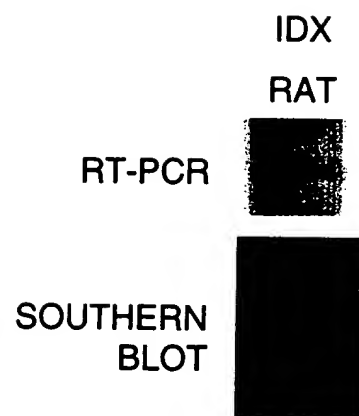
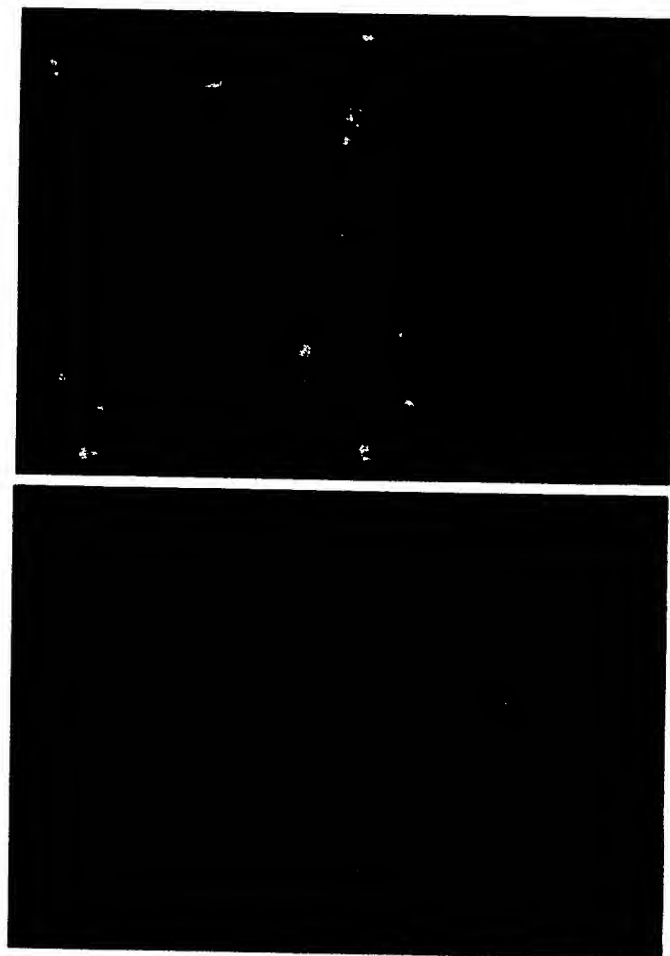


FIG. 10B

FIG. 10A

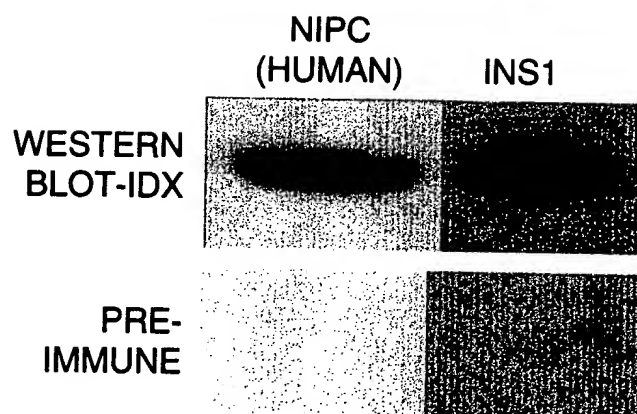


FIG. 10C

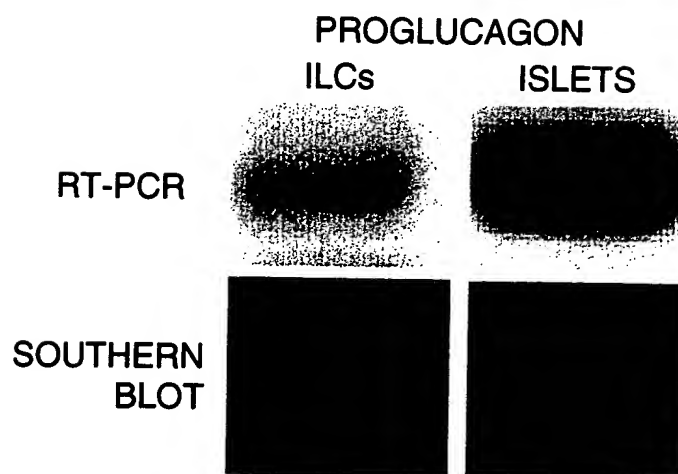


FIG. 10D

CK19 / NESTIN



FIG. 11A.

CK19 / NESTIN

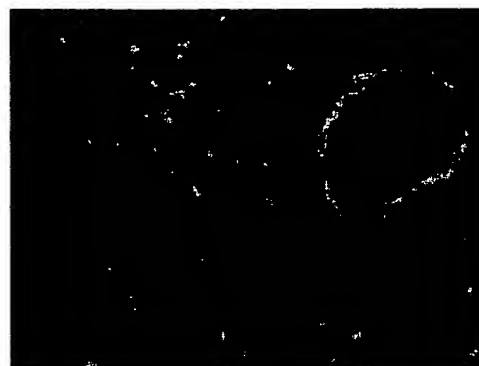


FIG. 11B

NESTIN



NESTIN/NUCLEI

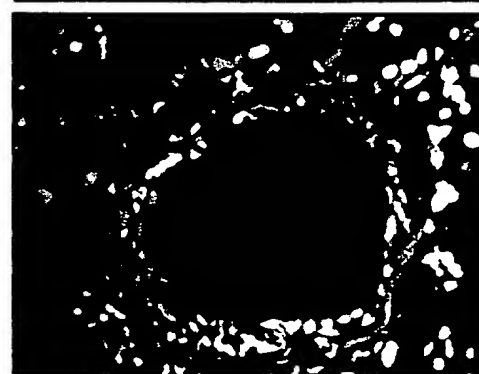


FIG. 11C

Downloaded from www.sciencedirect.com

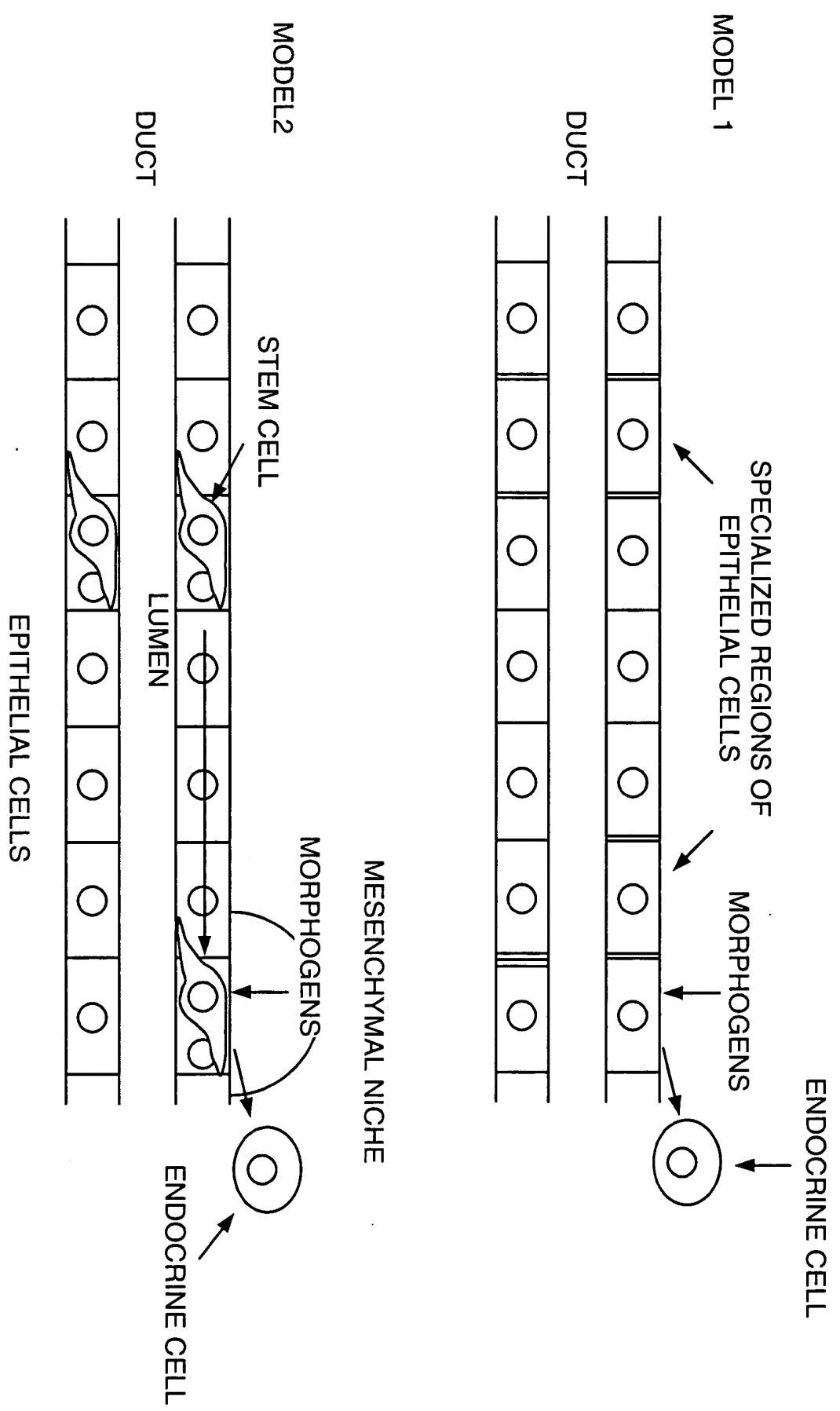


FIG. 12



FIG. 13A

TOP SECRET

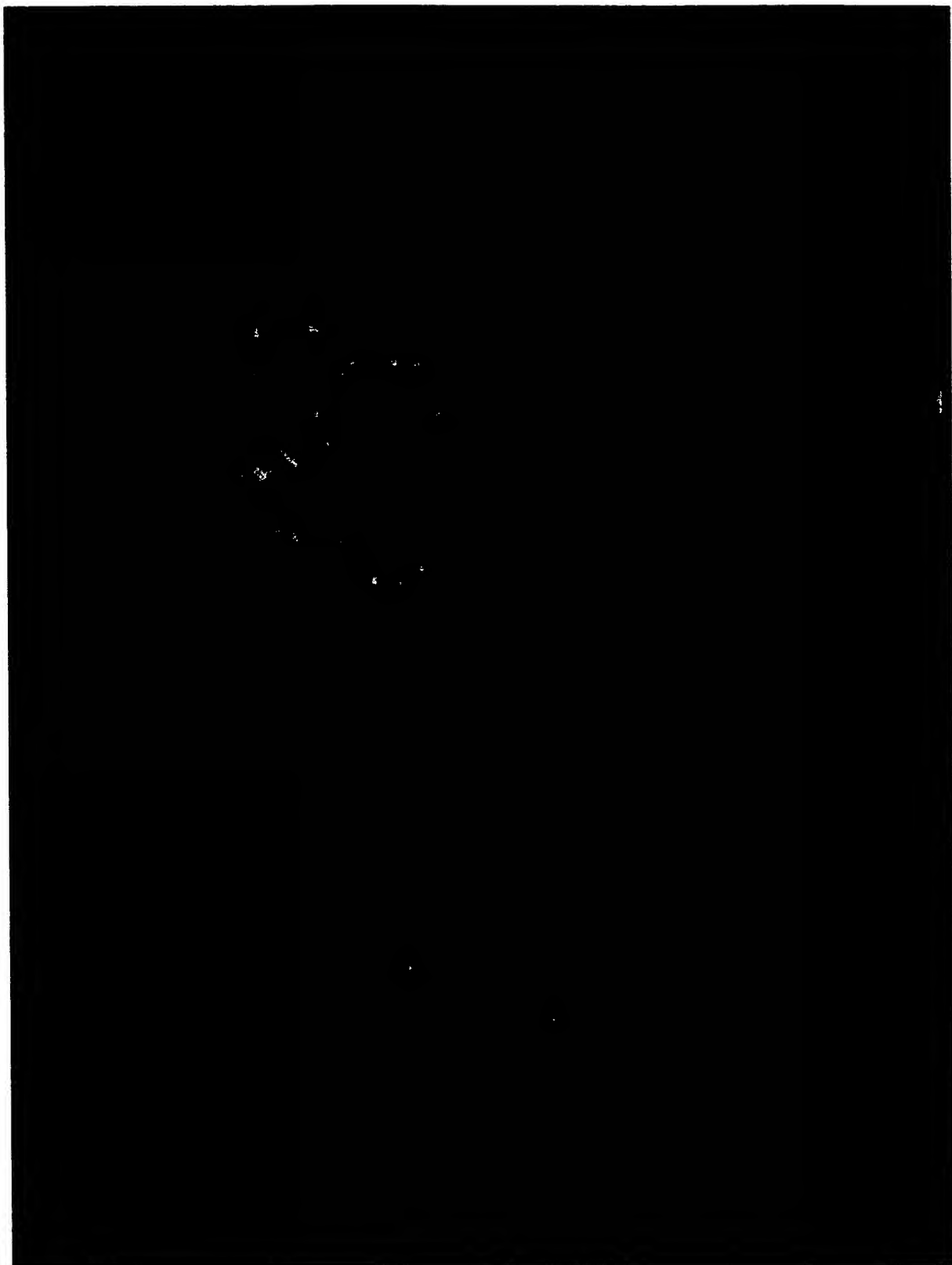


FIG. 13B

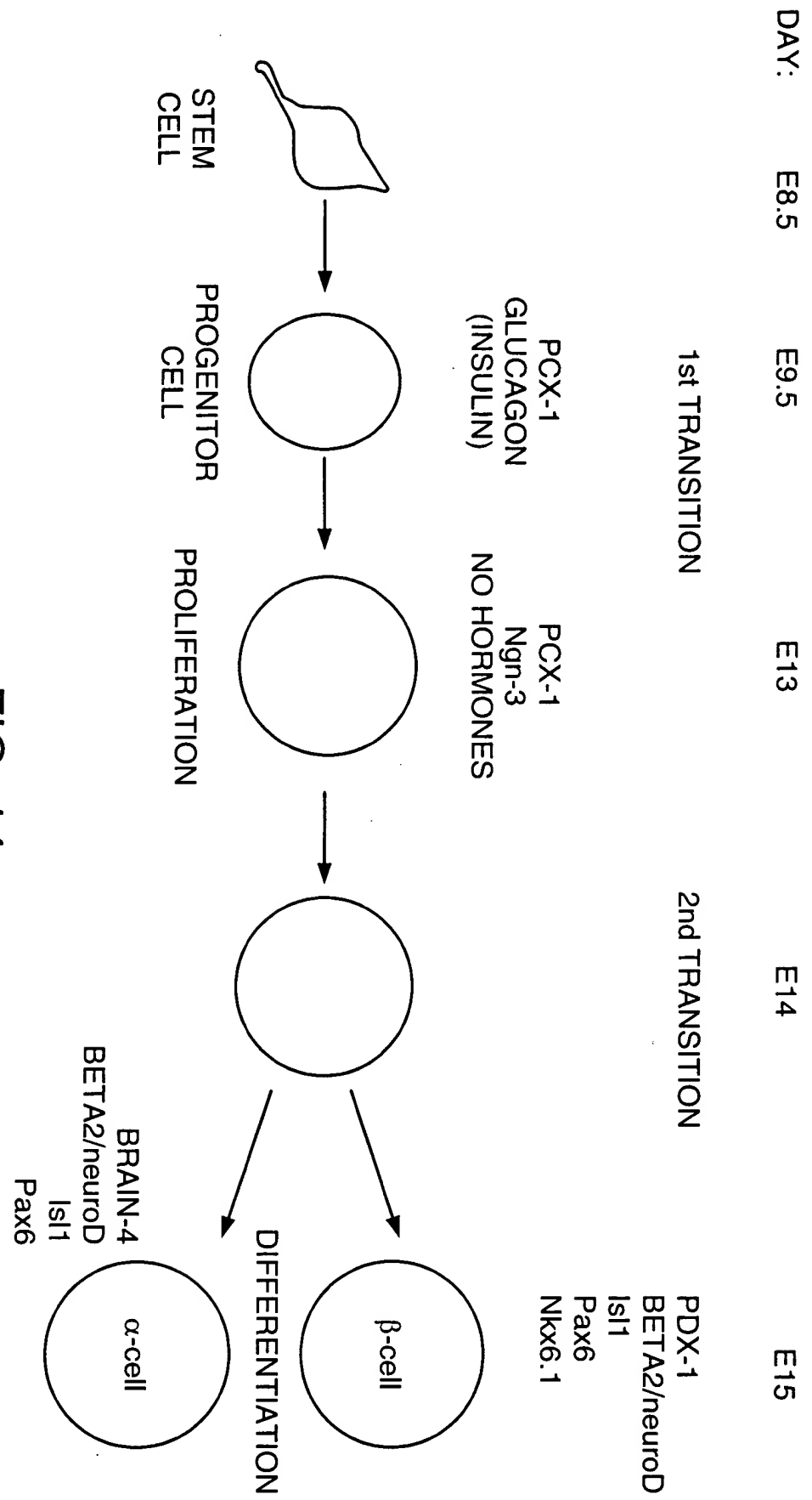


FIG. 14

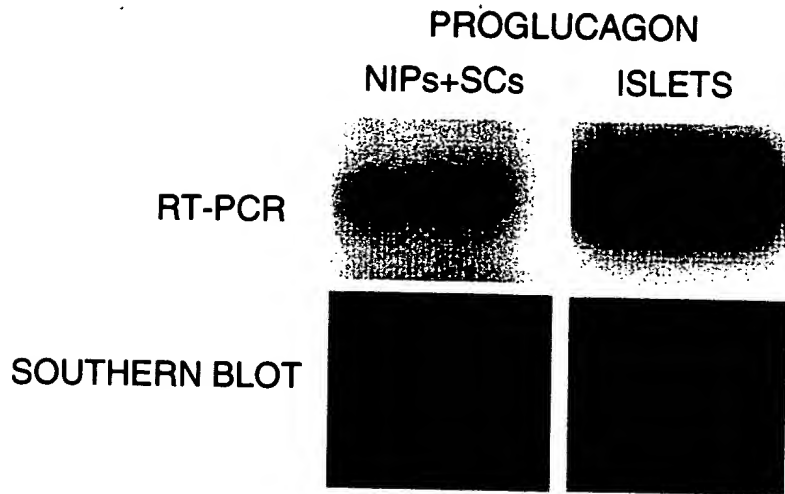


FIG. 15A

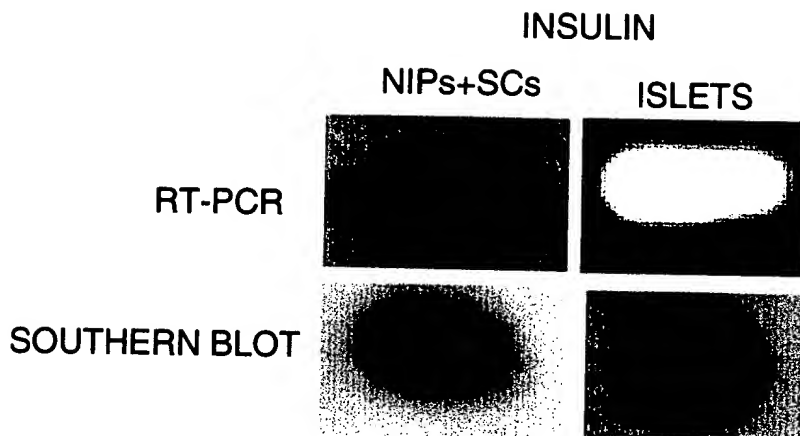


FIG. 15B

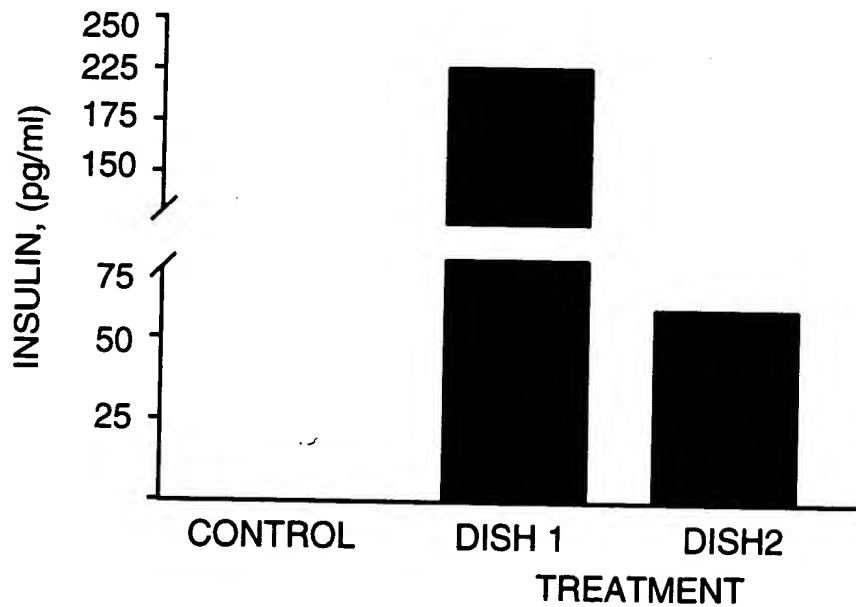


FIG. 15C

NEURO-
ENDOCRINE

SYN



HGFR



GLUT-2

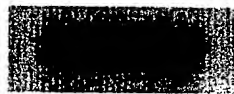


EXOCRINE

AMY



CARB

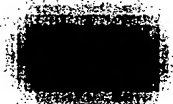


HEPATIC

TTR



HGF



E-CAD



XBP



AFP



FIG. 16